

IN THE SPECIFICATION

ABSTRACT

~~The invention includes catalysts~~ Catalysts for polymerization of olefins, comprising (A) a transition metal compound, (B) an oxygen-containing compound, or a compound capable of reacting with a transition metal compound to form an ionic complex, (C) ~~a specific compound such as a reaction product of triphenylmethyl alcohol and triisobutylaluminum~~ compound of formula $((R^1)_3-C-Y)_n-Z-(R^2)_{m-n}$ $R^1_3-C-Y_{n-3}-R^2_{m-n}$, and optionally (D) an alkylating agent, and methods for producing olefinic polymers in the presence of such catalysts. ~~The catalysts have the advantages of enhancing the polymerization activity and reducing the amount of the promoter such as oxygen-containing compounds, etc. Using them, olefinic polymers can be produced efficiently and inexpensively.~~